

PCG-C1VP/C1VPK

SERVICE MANUAL

US Model
Canadian Model



Confidential

Notebook Computer
SONY®

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Caution Markings for Lithium/Ion Battery - The following or similar texts shall be provided on battery pack of equipment or in both the operating and the service instructions.

CAUTION: Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the manufacturer. Discard used batteries according to the manufacturer's instructions.

CAUTION: The battery pack used in this device may present a fire or chemical burn hazard if mistreated. Do not disassemble, heat above 100°C (212°F) or incinerate.

Dispose of used battery promptly.

Keep away from children.

CAUTION: Changing the back up battery.

- Overcharging, short circuiting, reverse charging, multilatation or incineration of the cells must be avoided to prevent one or more of the following occurrences; release of toxic materials, release of hydrogen and/or oxygen gas, rise in surface temperature.
- If a cell has leaked or vented, it should be replaced immediately while avoiding to touch it without any protection.



Service and Inspection Precautions

1. Obey precautionary markings and instructions

Labels and stamps on the cabinet, chassis, and components identify areas requiring special precautions. Be sure to observe these precautions, as well as all precautions listed in the operating manual and other associated documents.

2. Use designated parts only

The set's components possess important safety characteristics, such as noncombustibility and the ability to tolerate large voltages. Be sure that replacement parts possess the same safety characteristics as the originals. Also remember that the Δ mark, which appears in circuit diagrams and parts lists, denotes components that have particularly important safety functions; be extra sure to use only the designated components.

3. Always follow the original design when mounting parts and routing wires

The original layout includes various safety features, such as inclusion of insulating materials (tubes and tape) and the mounting of parts above the printer board. In addition, internal wiring has been routed and clamped so as to keep it away from hot or high-voltage parts. When mounting parts or routing wires, therefore, be sure to duplicate the original layout.

4. Inspect after completing service

After servicing, inspect to make sure that all screws, components, and wiring have been returned to their original condition. Also check the area around the repair location to ensure that repair work has caused no damage, and confirm safety.

5. When replacing chip components...

Never reuse components. Also remember that the negative side of tantalum capacitors is easily damaged by heat.

6. When handling flexible print boards...

- The temperature of the soldering-iron tip should be about 270C.
- Do not apply the tip more than three times to the same pattern.
- Handle patterns with care; never apply force.

Caution: Remember that hard disk drives are easily damaged by vibration. Always handle with care.

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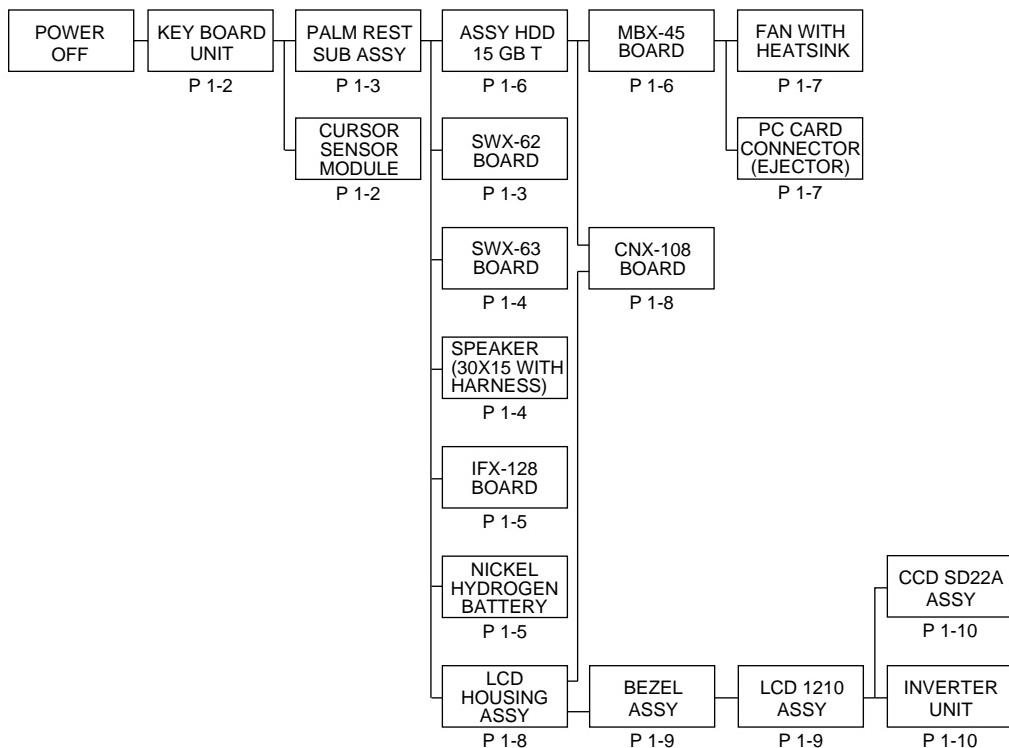
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- Abbreviations

UC : US model / Canadian model

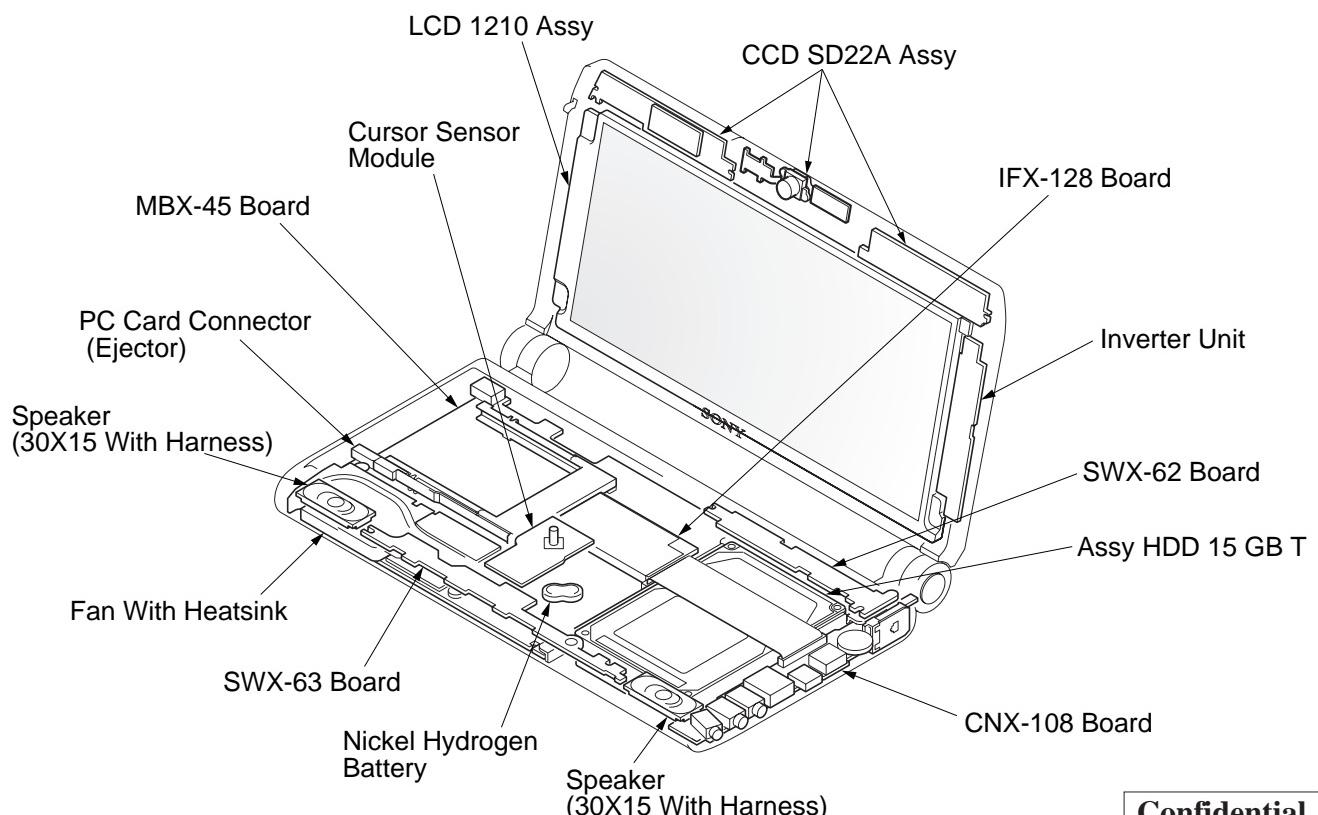
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1-1. Flowchart



- P XX means pages that appears in this manual.
- Remember that hard disk drives are easily damaged by vibration. Always handle with care.

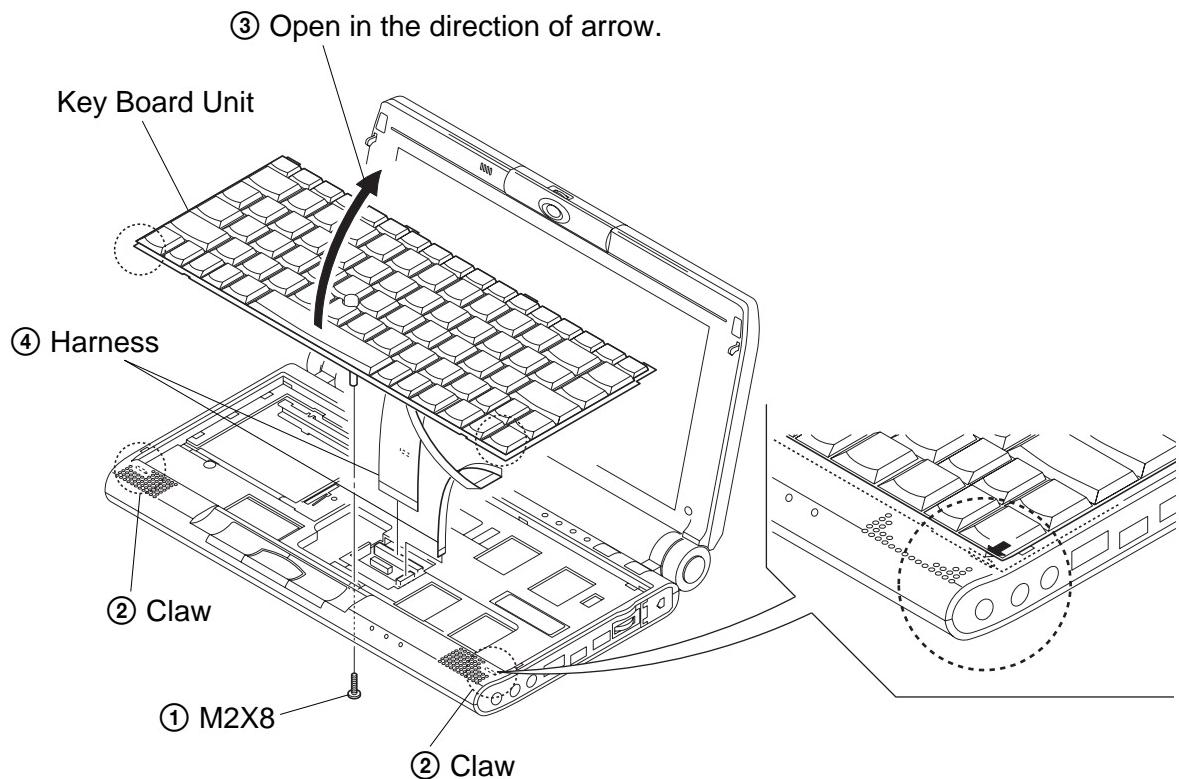
1-2. Main Electrical Parts Location Diagram



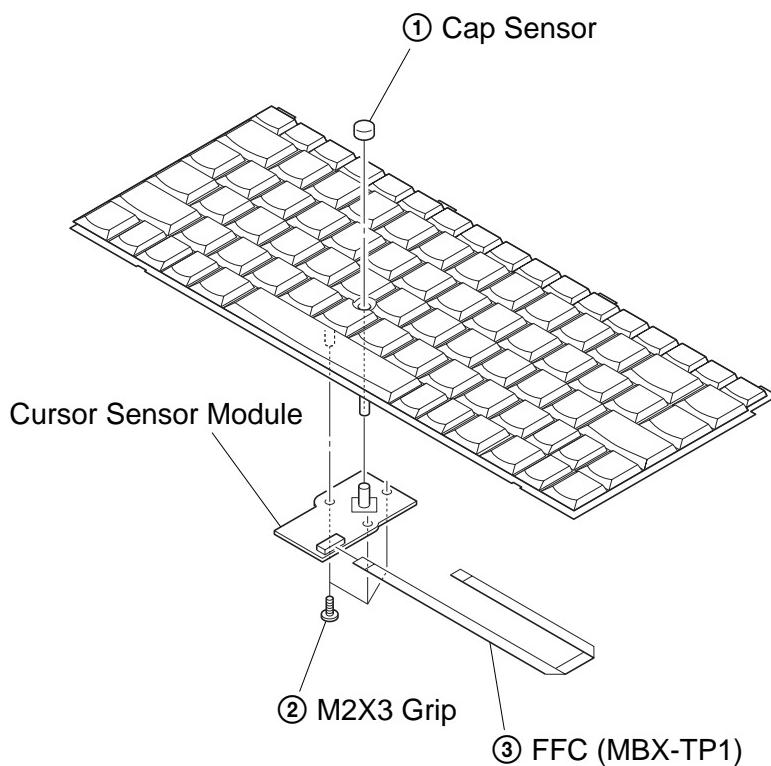
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1-3. Removal

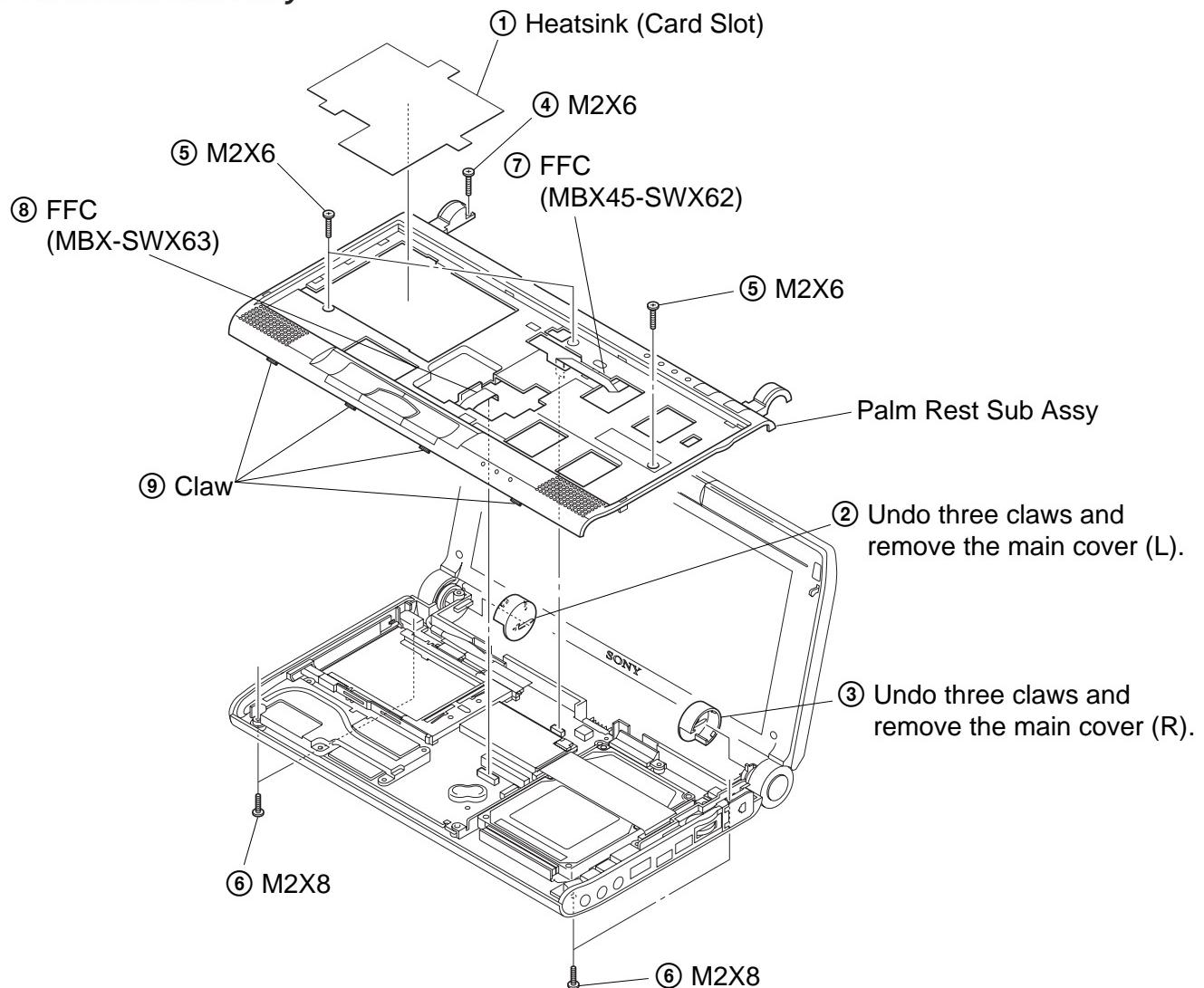
1. Key Board Unit



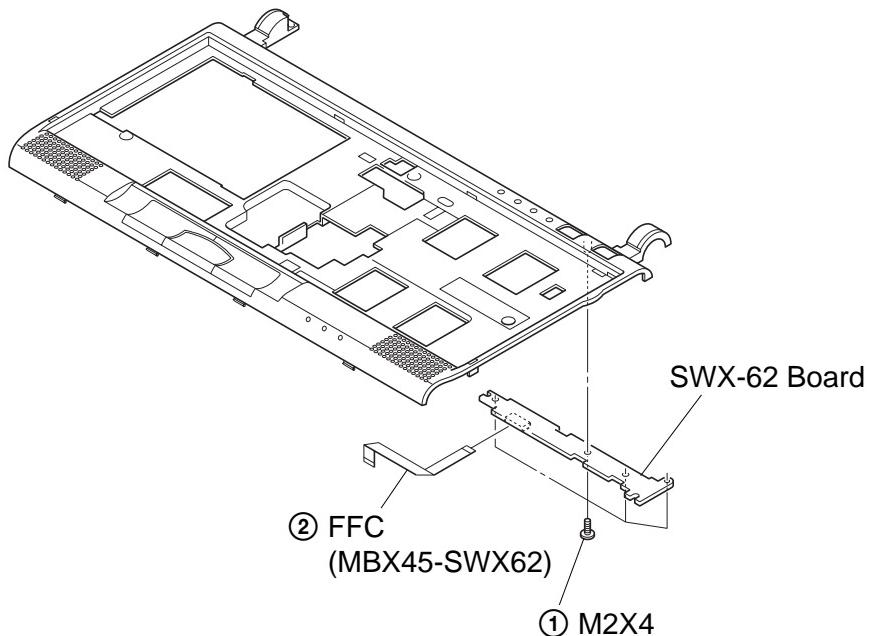
2. Cursor Sensor Module



3. Palm Rest Sub Assy

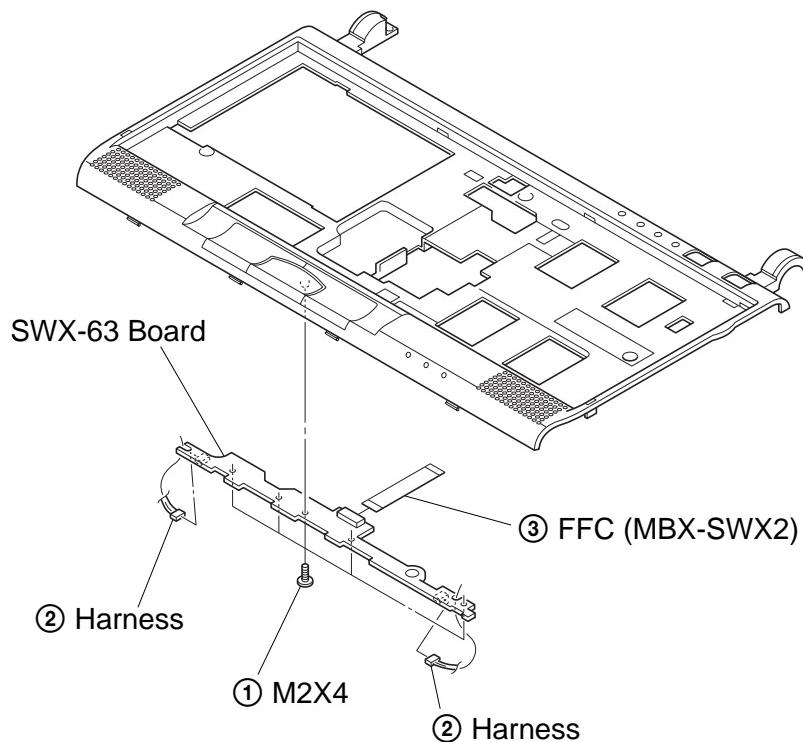


4. SWX-62 Board

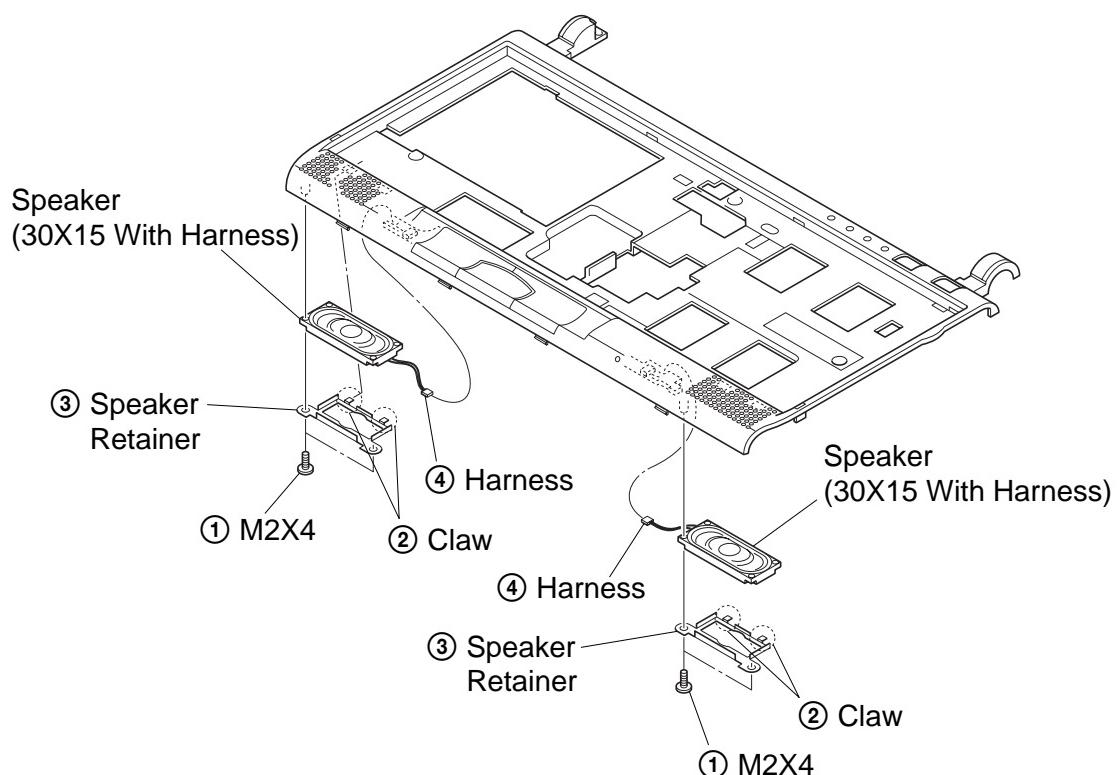


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5. SWX-63 Board

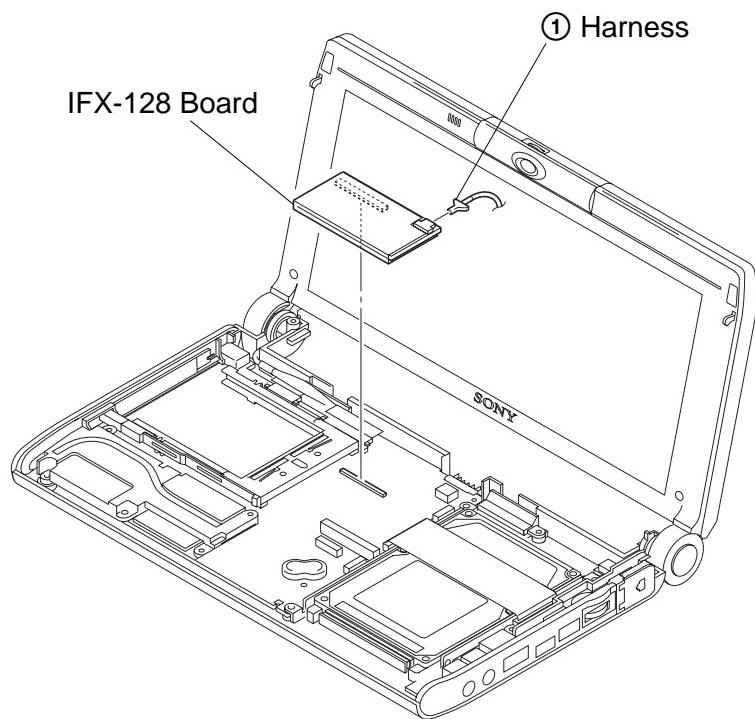


6. Speaker (30X15 With Harness)

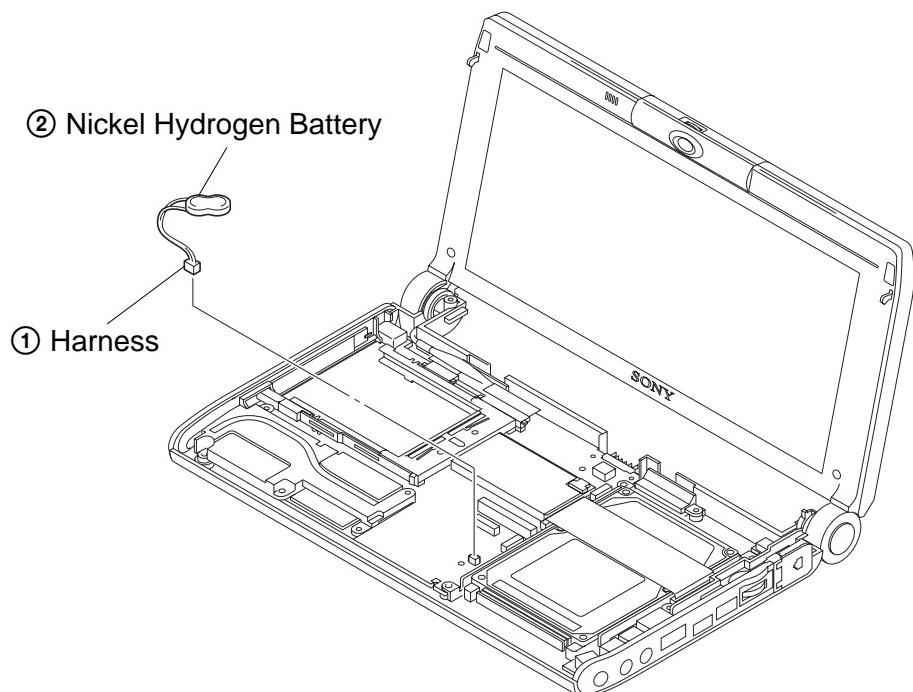


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7. IFX-128 Board

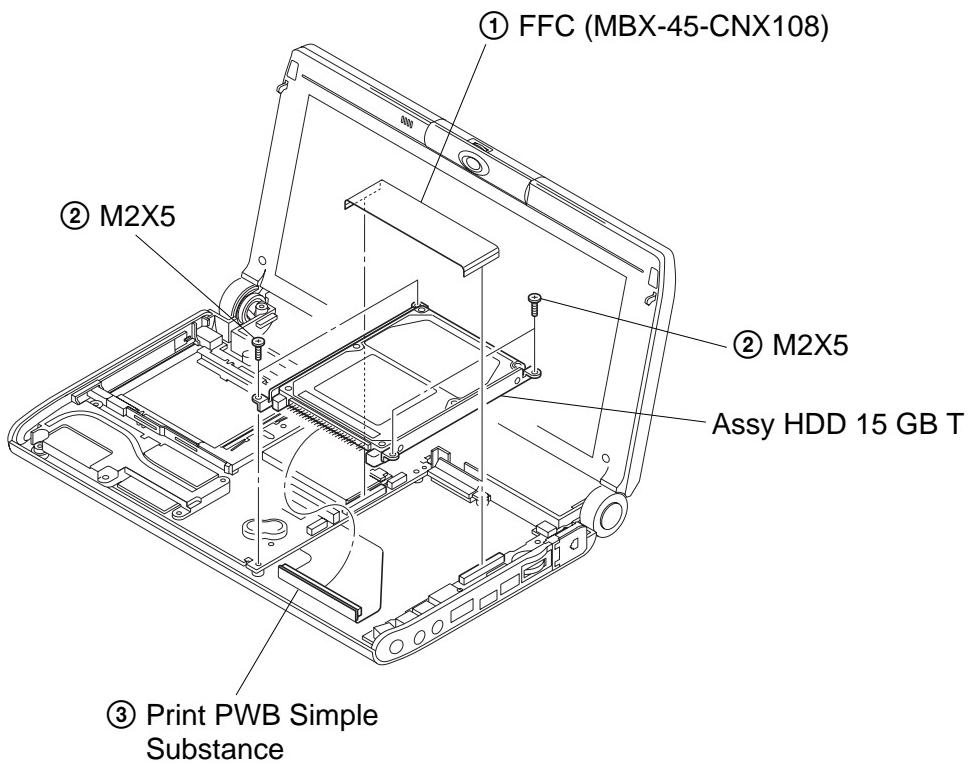


8. Nickel Hydrogen Battery

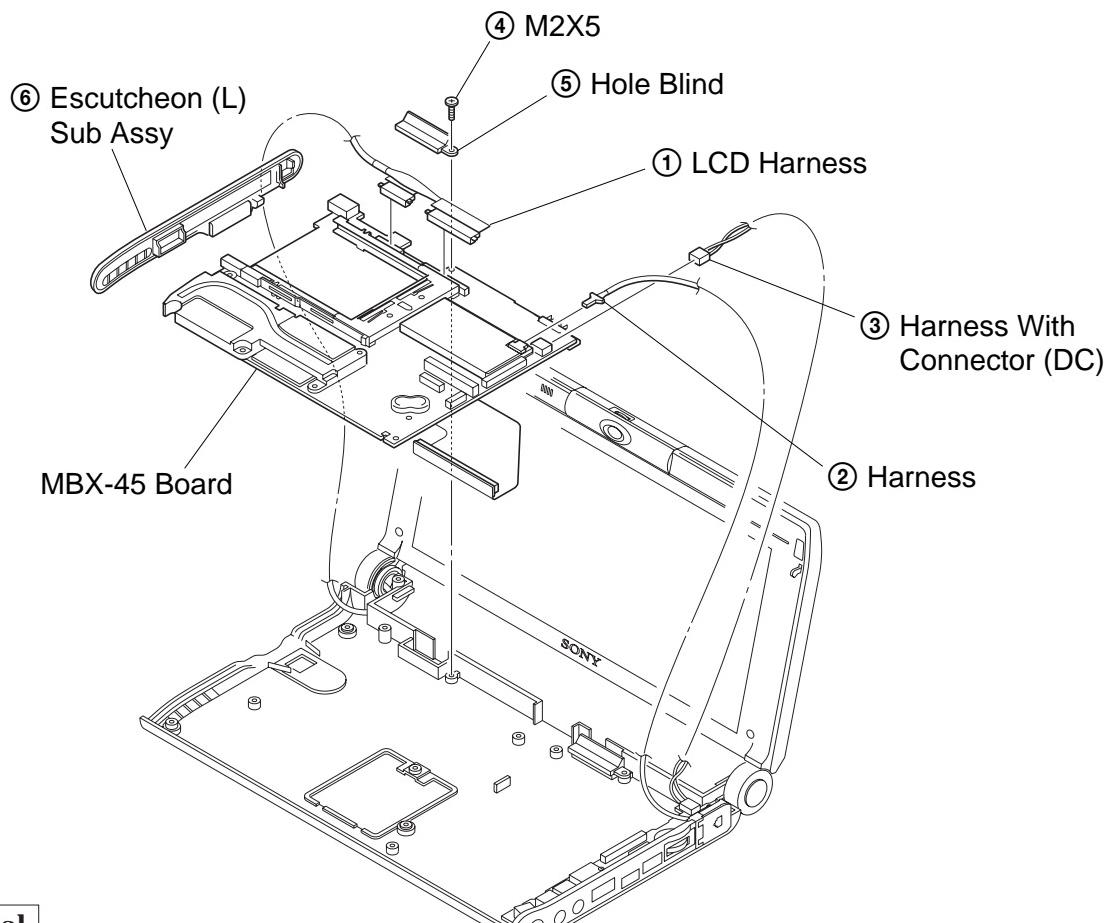


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9. Assy HDD 15 GB T



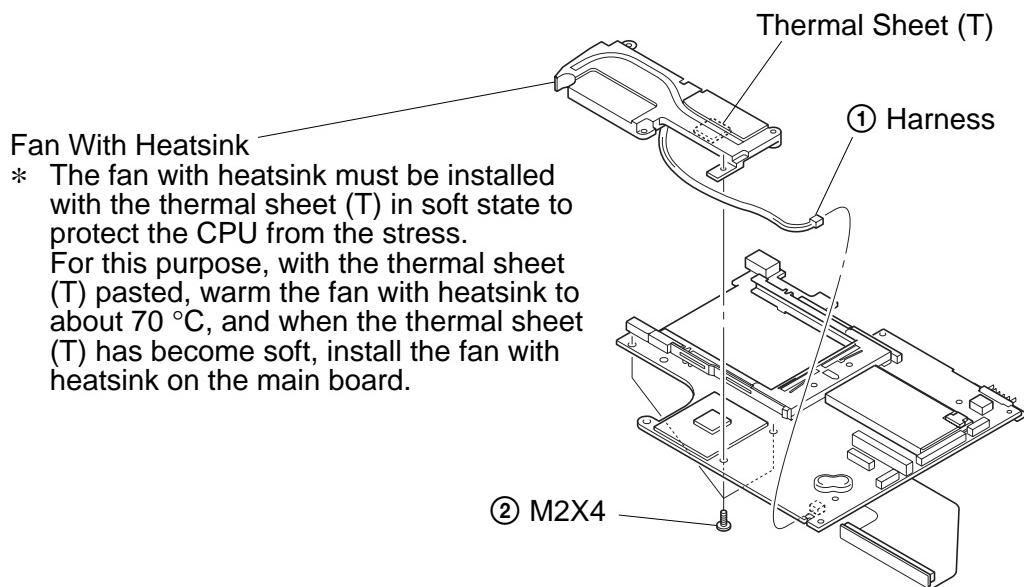
10. MBX-45 Board



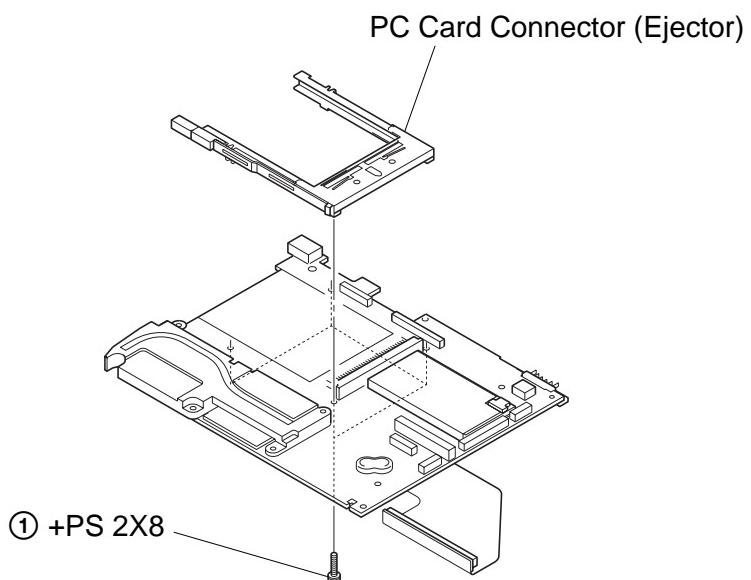
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PCG-C1VP/C1VPK (UC)

11. Fan With Heatsink

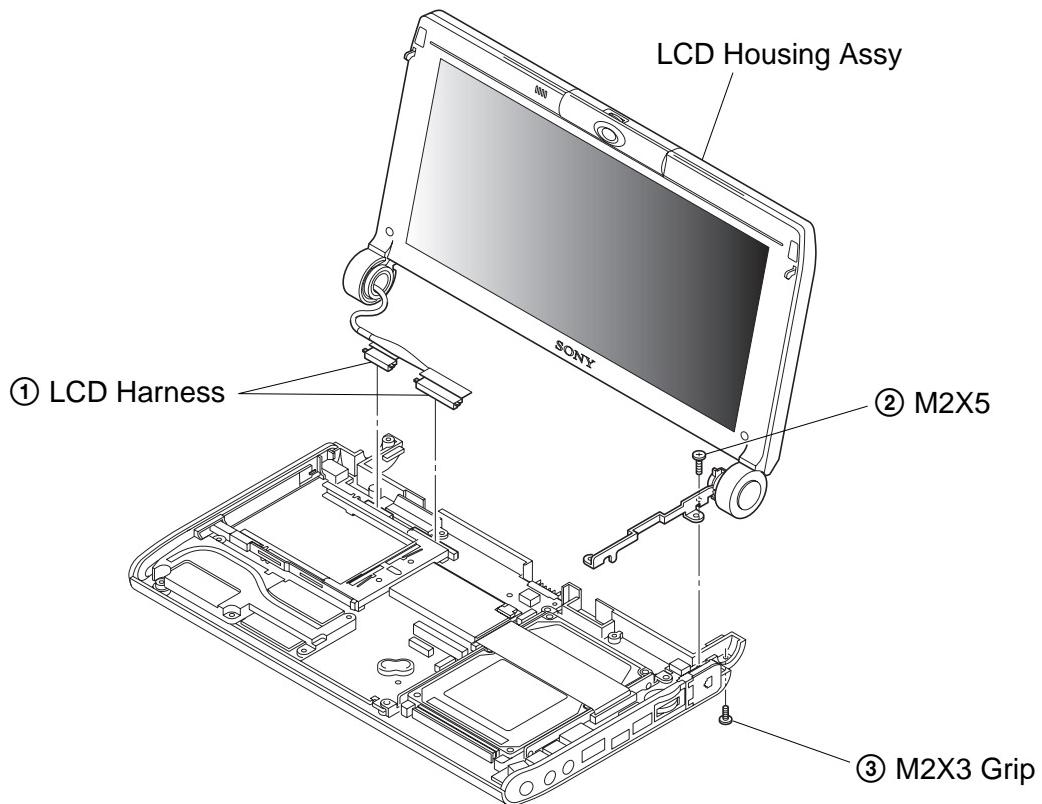


12. PC Card Connector (Ejector)

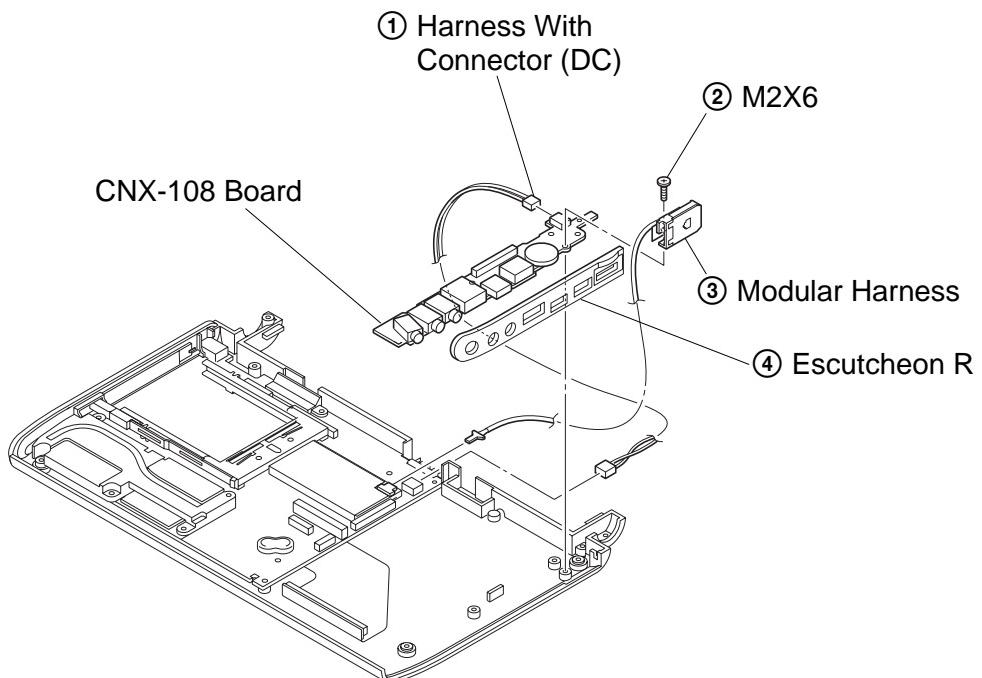


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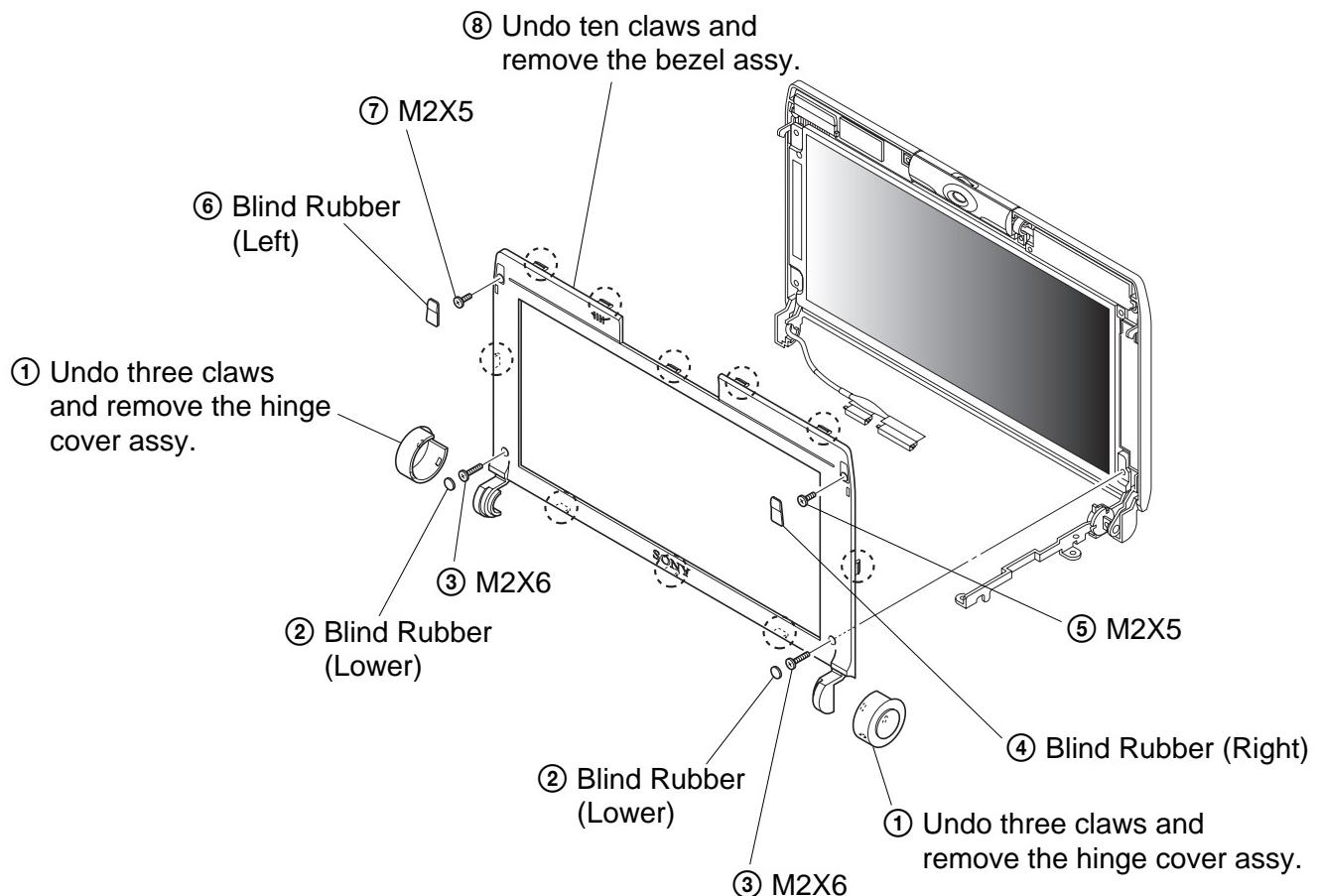
13. LCD Housing Assy



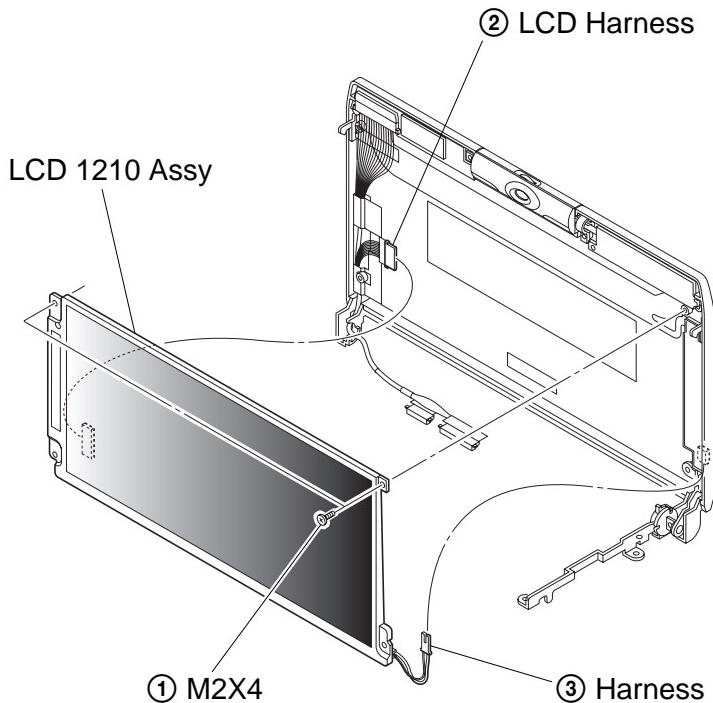
14. CNX-108 Board



15. Bezel Assy

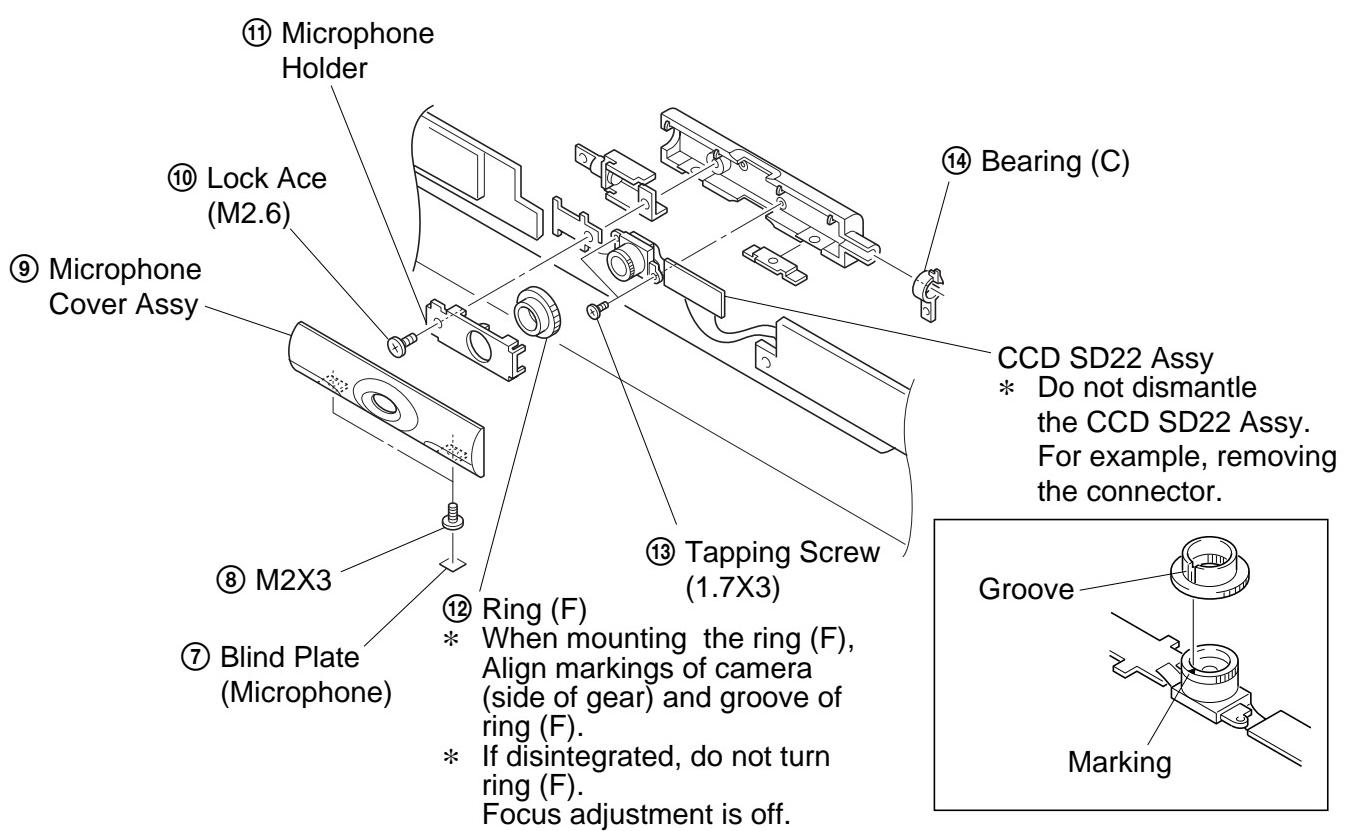
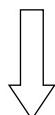
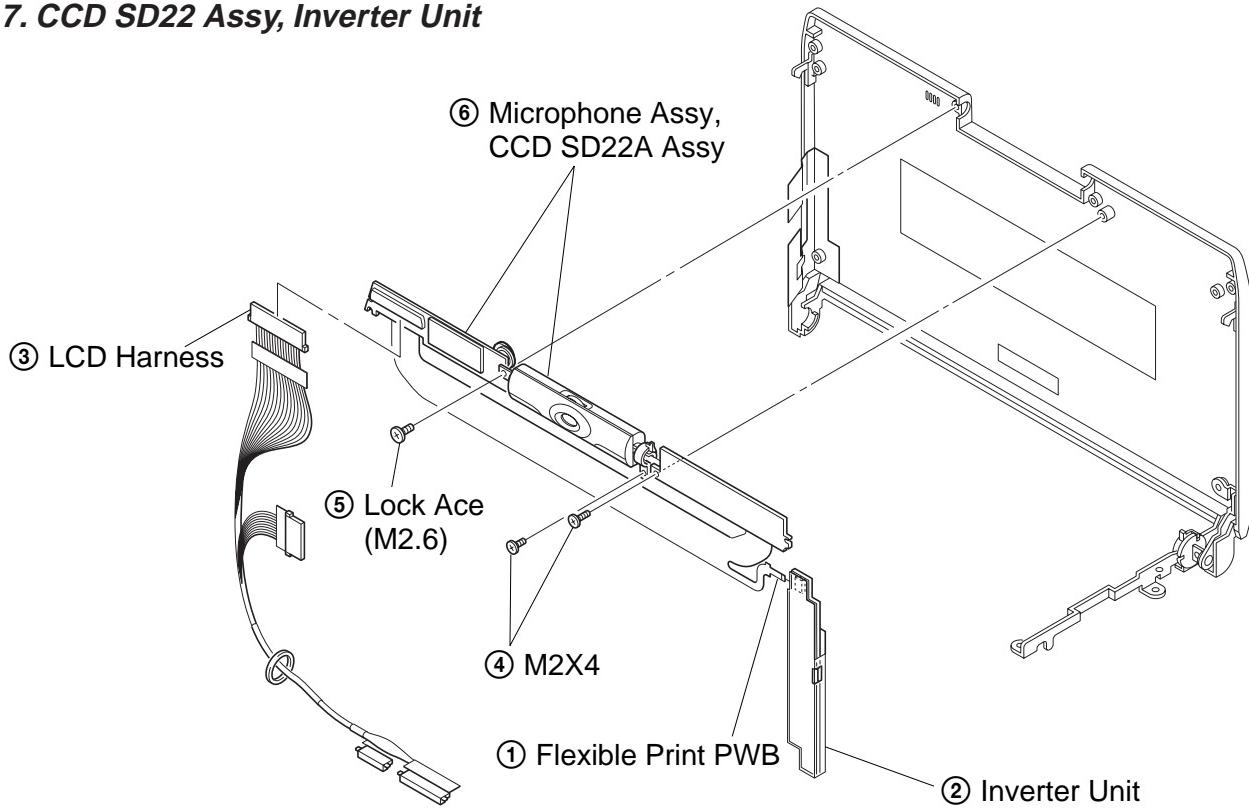


16. LCD 1210 Assy



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17. CCD SD22 Assy, Inverter Unit



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CHAPTER 2.

SELF DIAGNOSTICS

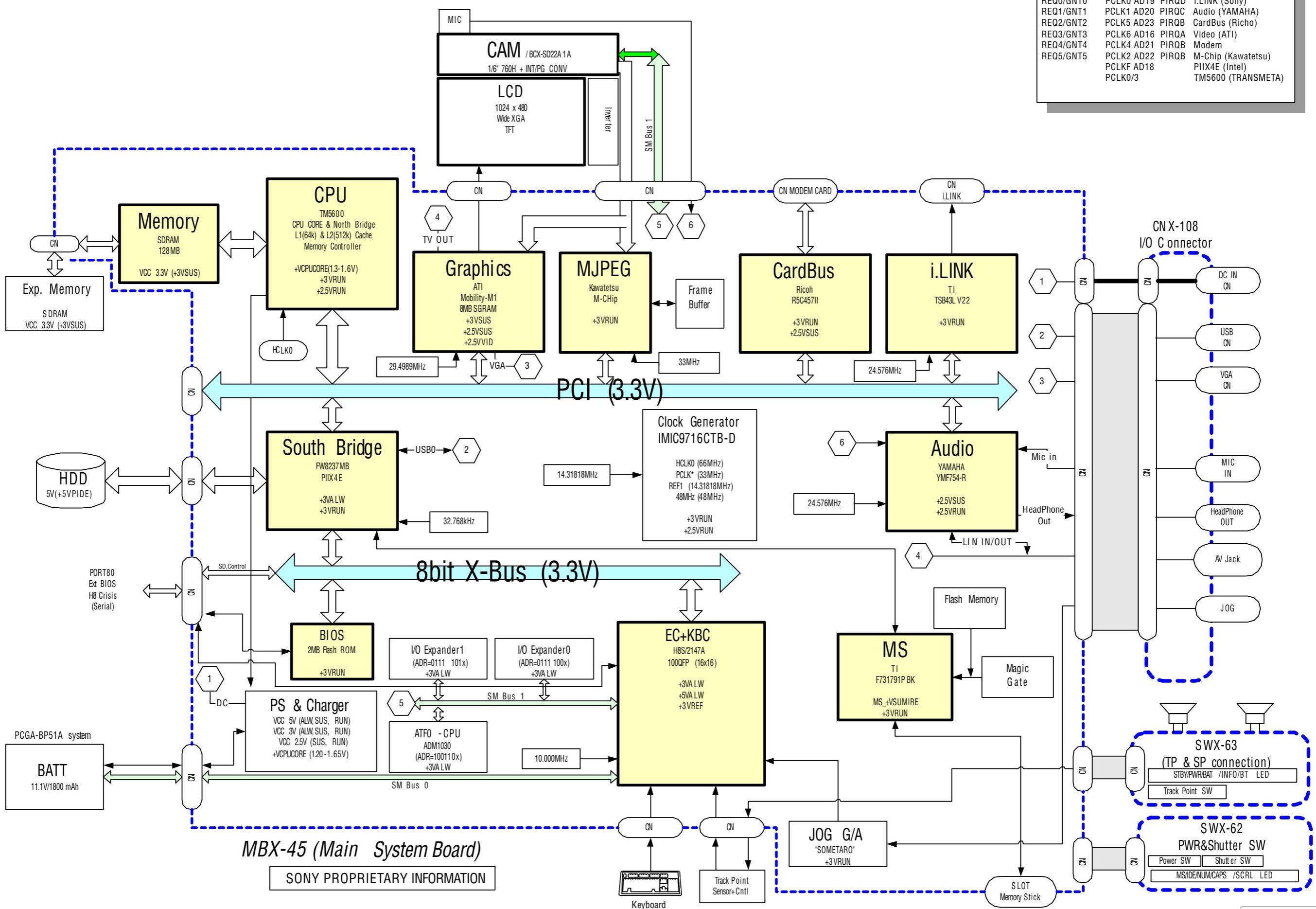
< ATTENTION >

**Please confirm “Self Diagnostics” method which will be informed
you with distribution of “Self Diagnostics” software.**

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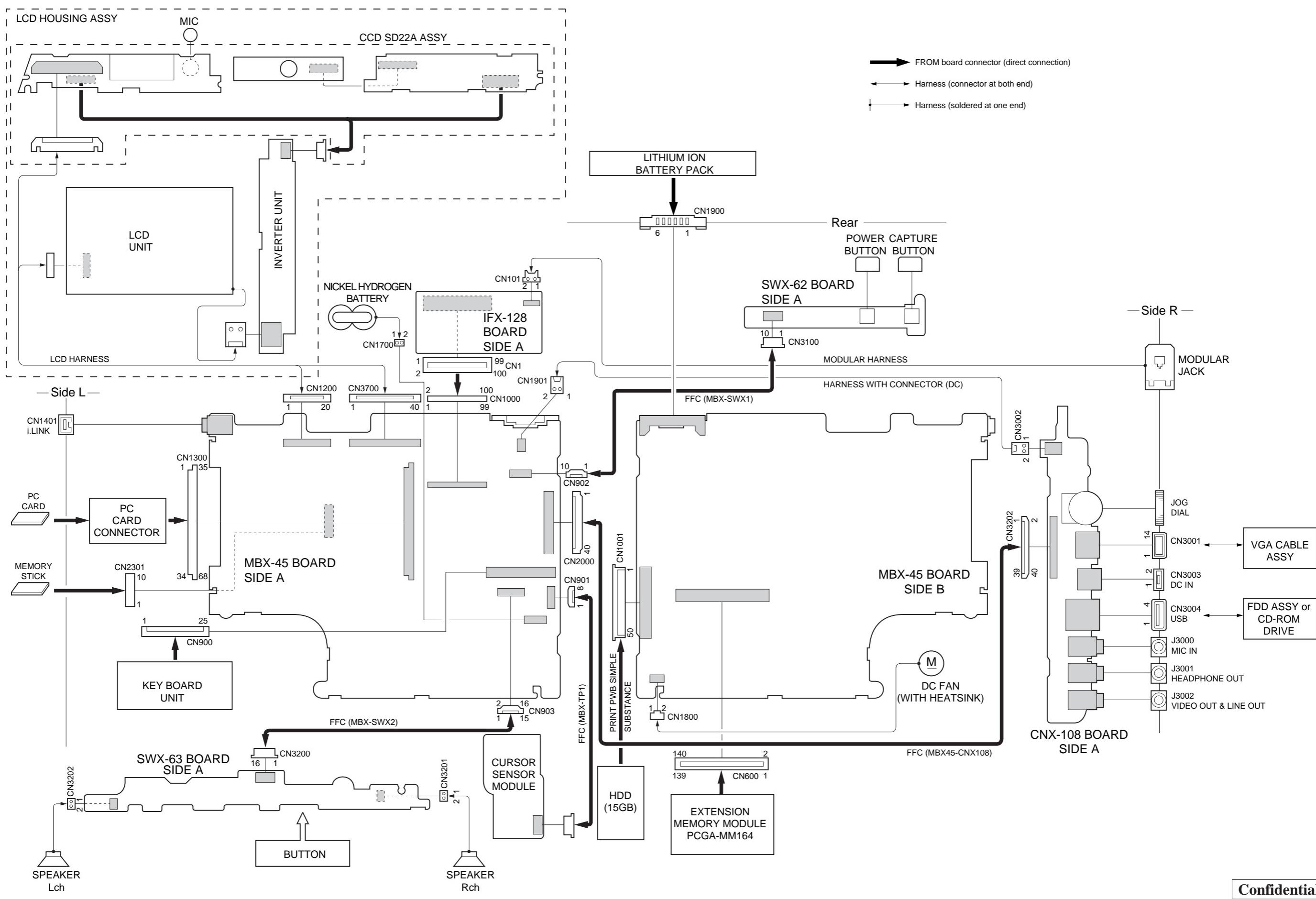
CHAPTER 3.

BLOCK DIAGRAM



CHAPTER 4.

FRAME HARNESS DIAGRAM



CHAPTER 5.

EXPLODED VIEWS AND PARTS LIST

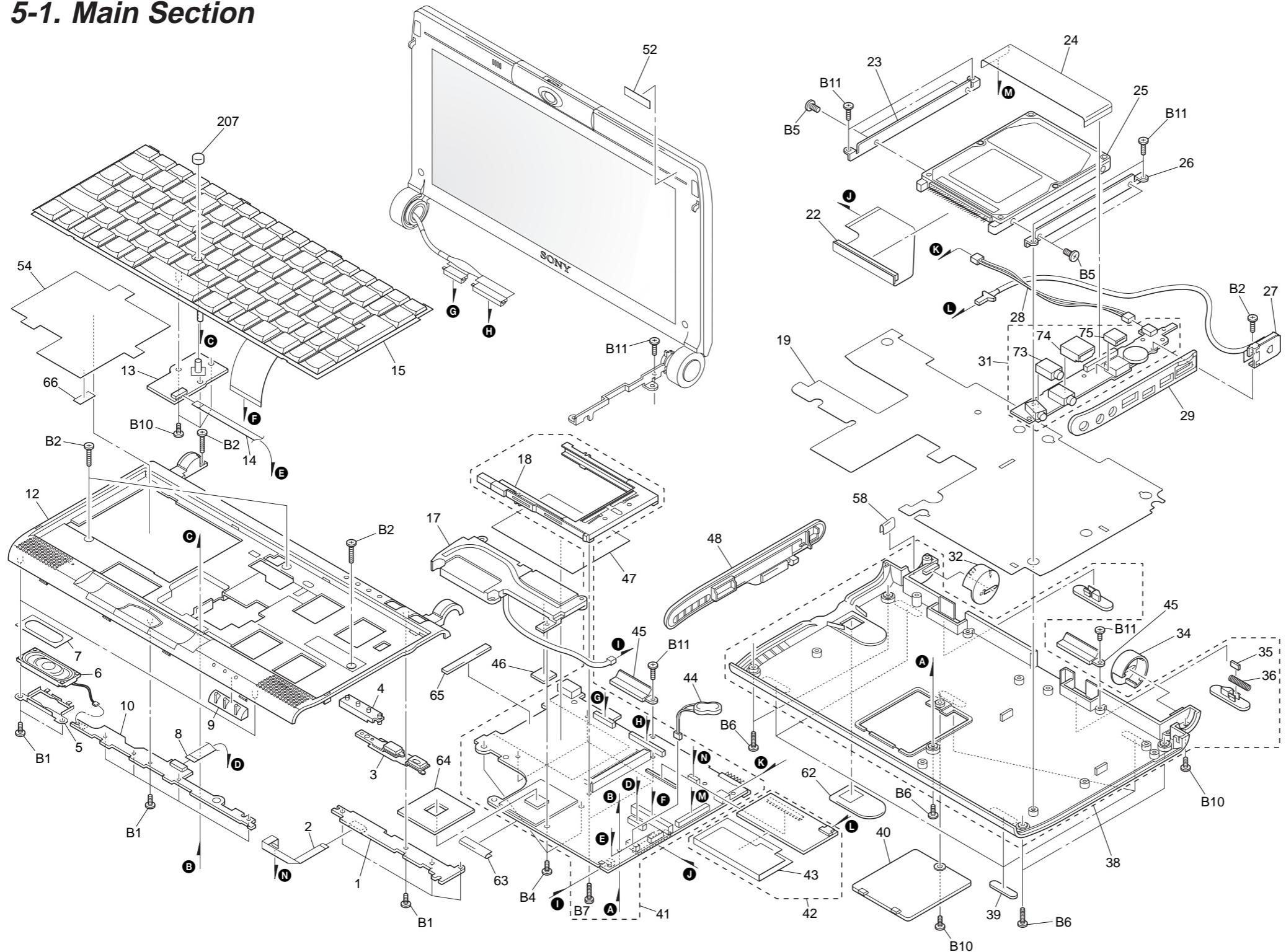
NOTE:

- The mechanical parts with no reference number in the exploded views are not supplied.
- Items marked “*” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- When the same reference numbers are written down in the list, please use the one listed in the first place as the main part.

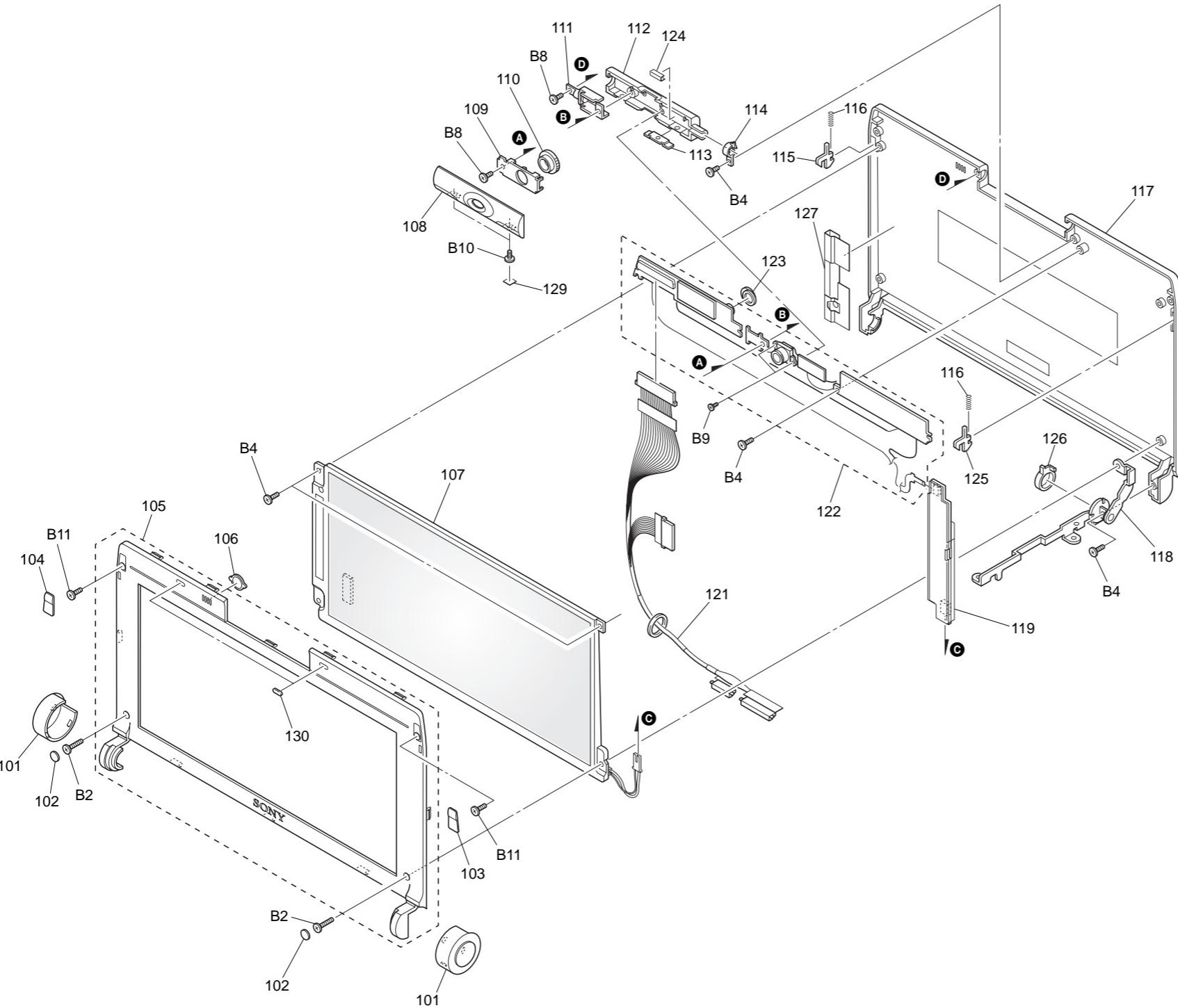
The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque Δ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

5-1. Main Section



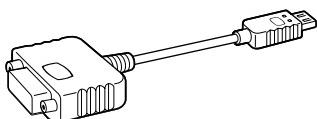
5-2. LCD Section



5-3. Accessories

202

Display Adaptor (1)



Ref.No. Part No.

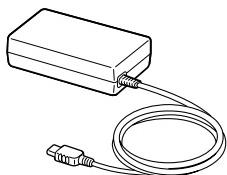
Description

ACCESSORIES

202	1-757-026-11	CABLE, VGA
△203	1-418-518-32	ADAPTOR, A.C.
204	1-756-074-21	BATTERY PACK, LITHIUM ION
△206	1-757-562-31	CORD, POWER
207	4-643-958-01	CAP (IN BAG), SENSOR
209	1-765-080-31	CORD, CONNECTION
	4-655-539-11	QUICK START, C1

203

AC Adaptor

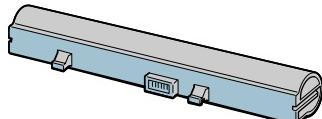


The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque △ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

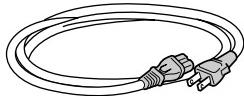
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Battery Pack (1)



206

Power Cord (1)



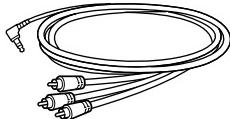
207

Spare Cap (for Stick) (2)



209

AV Connecting Cable



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